

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number  
**WO 2005/041014 A1**

(51) International Patent Classification<sup>7</sup>: G06F 3/023,  
3/033

(21) International Application Number:  
PCT/EP2004/052204

(22) International Filing Date:  
16 September 2004 (16.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
03445114.6 15 October 2003 (15.10.2003) EP  
60/516,155 31 October 2003 (31.10.2003) US

(71) Applicant (for all designated States except US): SONY ERICSSON MOBILE COMMUNICATIONS AB [SE/SE]; S-221 88 Lund (SE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): TOORN, Fredrik [SE/SE]; Nobelvagen 80, S-212 15 Malmo (SE).

(74) Agents: AKERMAN, Marten et al.; Albihns Malmo AB, P.O. Box 4289, S-203 14 Malmo (SE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FL, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Declaration under Rule 4.17:

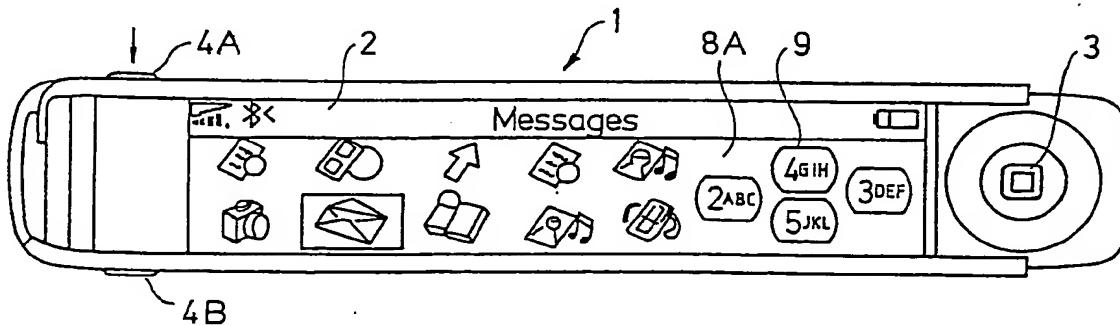
— of inventorship (Rule 4.17(iv)) for US only

#### Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DEVICE HAVING A JOYSTICK KEYPAD



(57) Abstract: The invention relates to a device having a joystick keypad, and more particularly a device having means for replacing or complementing an ordinary physical keypad. The device (1) comprises display means (2) for displaying images relating to the operation of the device and control means for controlling the display means by means of a layered menu structure, and a joystick (3) for moving a cursor in menus and making selections. The device further comprises a function key means (4A, 4B), wherein the control means is adapted to command display of a minimenu (8A) of soft keys (9) in response to operation of the function key means (4A, 4B), said soft keys (9) being selectable by means of the joystick (3). The function key means may comprise two function keys or a multipole key or another joystick. A special menu of soft keys (8A) is presented when the user activates a function key (4A). The soft keys (9) are selected by means of the joystick (3).